

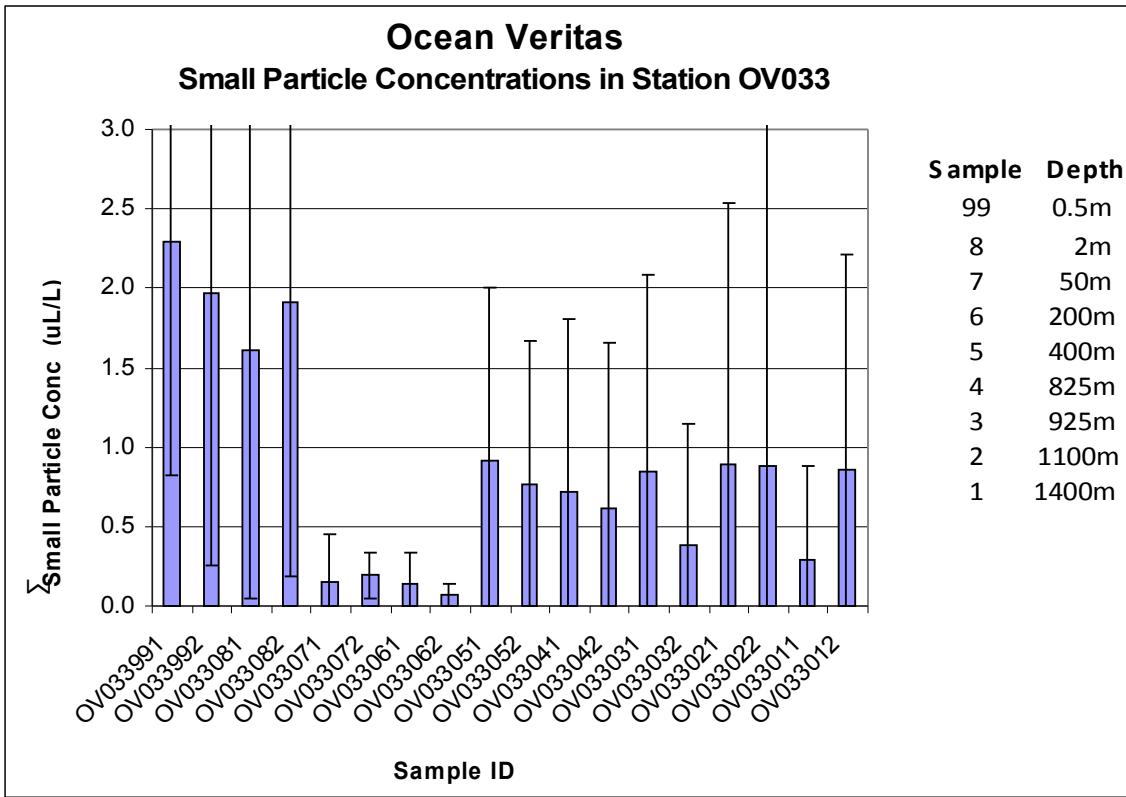
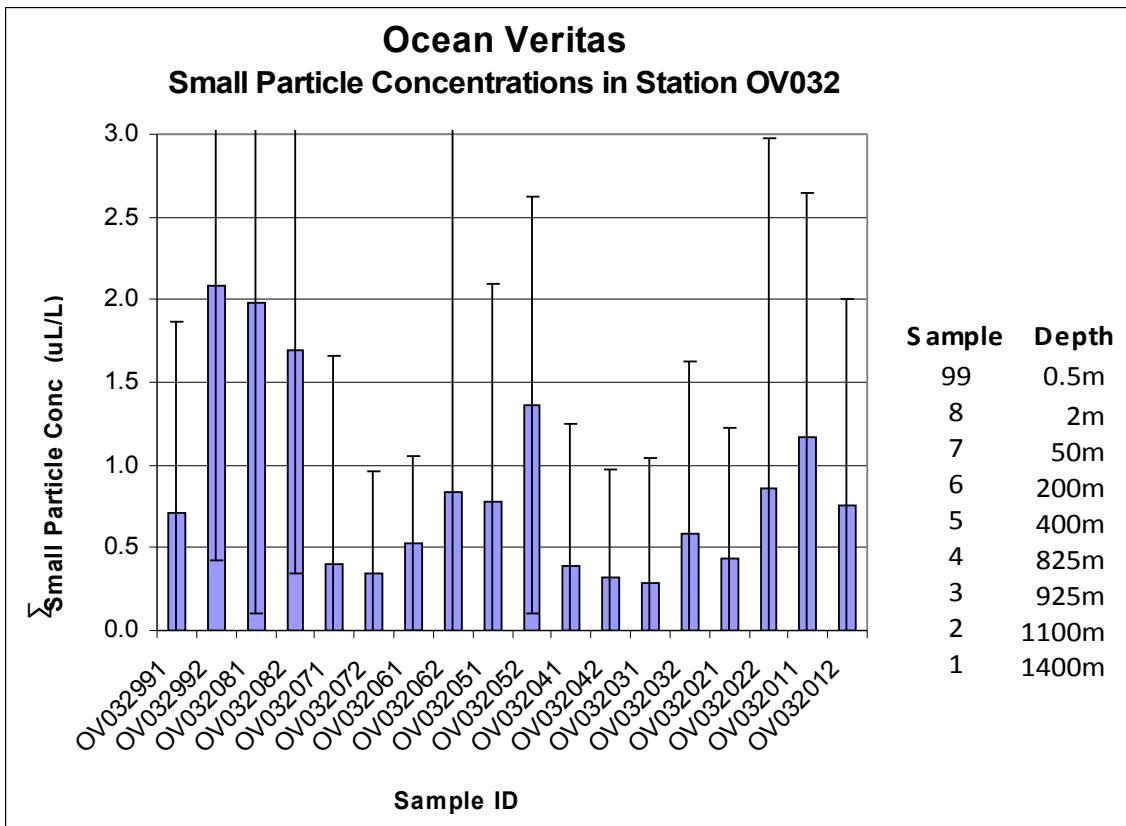
Daily Report: Tracking the Plume of Dispersed Oil using Particle Size Distribution Measurements

June 9, 2010

Water samples were collected at four stations for particle size distribution measurements using the LISST-100X particle counter. A total of 72 LISST samples were analyzed, including duplicates. Samples were also collected and stored for shore based fluorescence intensity ratio measurements.

Figure 1 presents the small droplet ($\sum 2.5 - 60\mu\text{m}$) particle size data for stations OV032 through OV035. LISST analysis and in-situ fluorometry did not detect the plume in stations OV032 through to OV034. Station OV035 had a distinct fluorescence signal at 1140m, complimenting the LISST data. Station OV035 had a high concentration of small particles at the surface (0.5m).

| Station # | Lat | Long |
|-----------|-----------|------------|
| OV032 | 28.71553 | -88.361426 |
| OV033 | 28.715869 | -88.37169 |
| OV034 | 28.718224 | -88.376945 |
| OV035 | 28.723998 | -88.384983 |



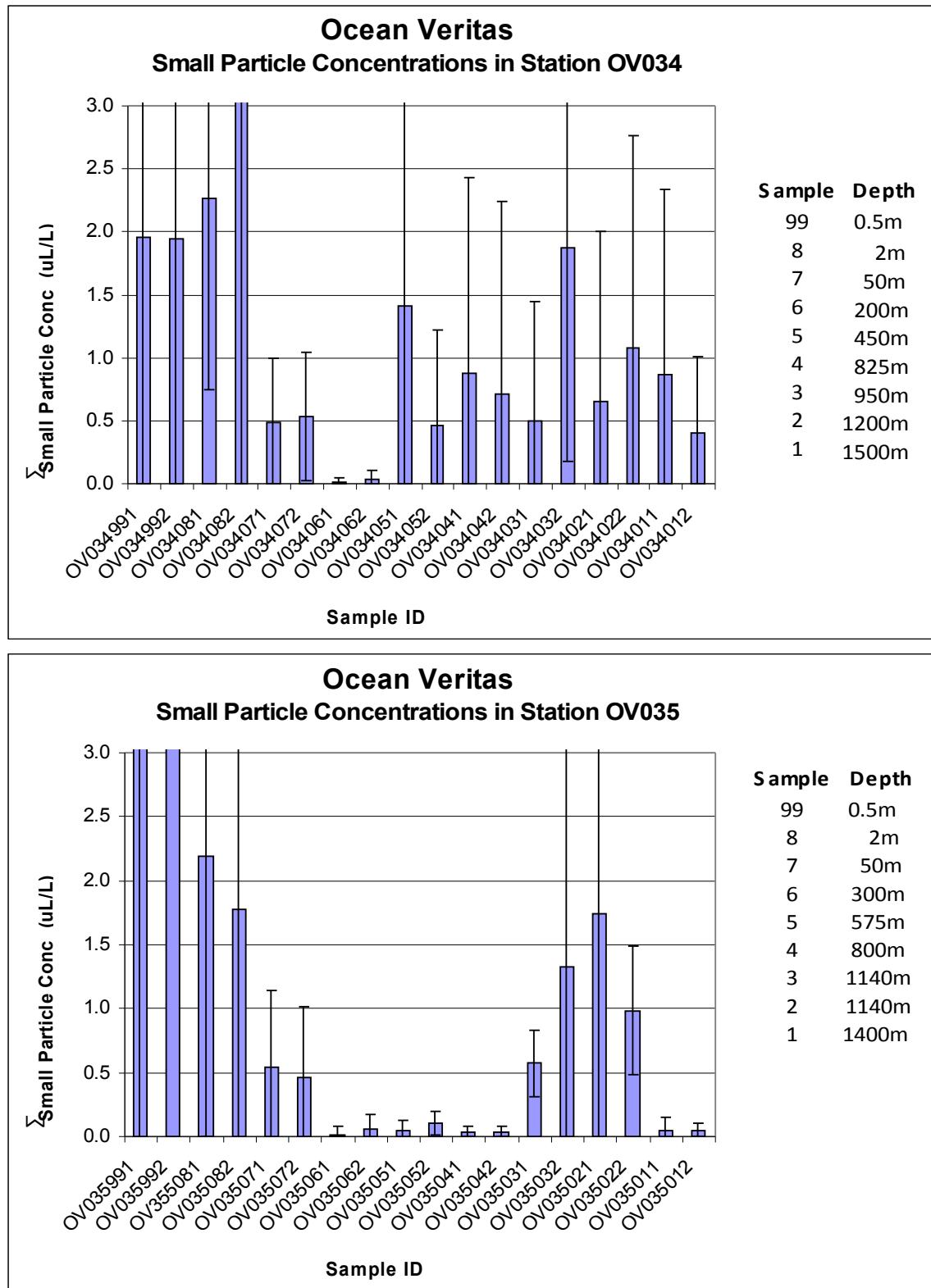


Figure 1: Average small particle concentrations ($n=20$) as a function of depth from stations OV032 to OV035.

